

10032846

=> s 1-alpha hydroxyvitamin D3

12917001 1

2497420 ALPHA

244 HYDROXYVITAMIN

25430 D3

L8 14 1-ALPHA HYDROXYVITAMIN D3

(1(W)ALPHA(W)HYDROXYVITAMIN(W)D3)

=> d 18 1-3

L8 ANSWER 1 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 300693-09-8 REGISTRY

CN 9,10-Secocholesta-5,7,10(19)-triene-1,3-diol, 4,4-difluoro-,
(1.alpha.,3.beta.,5E,7E)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4,4-Difluoro-1.alpha.-hydroxyvitamin D3

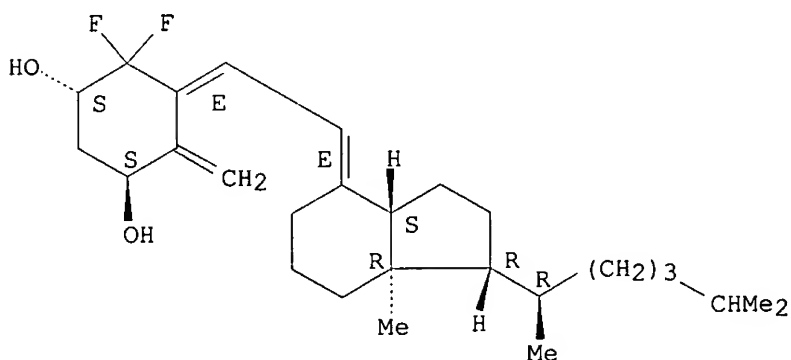
FS STEREOSEARCH

MF C27 H42 F2 O2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 2 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 178765-14-5 REGISTRY

CN 18-Nor-9,10-secocholesta-5,7,10(19)-triene-1,3-diol,
(1.alpha.,3.beta.,5Z,7E)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 18-Nor-1.alpha.-hydroxyvitamin D3

FS STEREOSEARCH

MF C26 H42 O2

SR CA

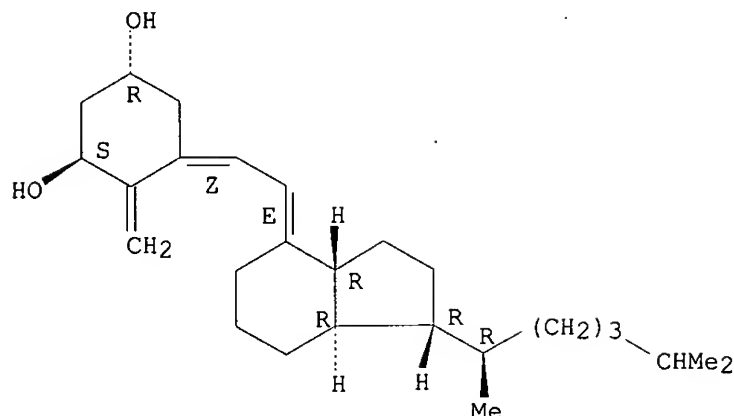
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

12/15/2002

10032846

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 111687-67-3 REGISTRY

CN 1,3-Cyclohexanediol, 4-methylene-5-[(2E)-[(1S,3aS,7aS)-octahydro-7a-methyl-1-[(1S)-1-(3-methylbutoxy)ethyl]-4H-inden-4-ylidene]ethylidene]-, (1R,3S,5Z)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Cyclohexanediol, 4-methylene-5-[2-[octahydro-7a-methyl-1-[1-(3-methylbutoxy)ethyl]-4H-inden-4-ylidene]ethylidene]-, [1S-[1.alpha.(R*),3a.beta.,4E(1S*,3R*,5Z),7a.alpha.]]-

OTHER NAMES:

CN **22-Oxa-1.alpha.-hydroxyvitamin D3**

FS STEREOSEARCH

DR 103909-46-2

MF C26 H42 O3

SR CA

LC STN Files: BEILSTEIN*, CA, CANCERLIT, CAPLUS, CASREACT, MEDLINE, TOXCENTER, USPATFULL

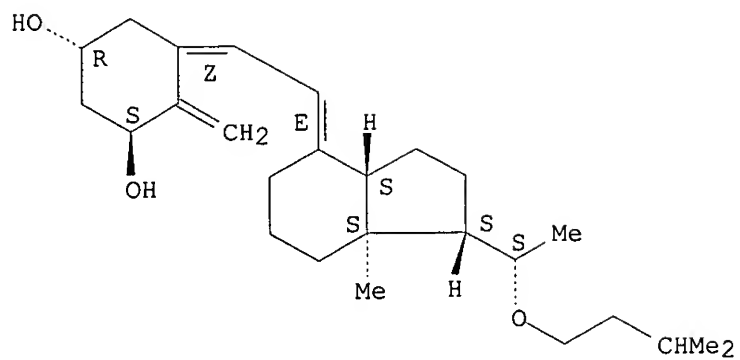
(*File contains numerically searchable property data)

Absolute stereochemistry.

Double bond geometry as shown.

12/15/2002

10032846



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1962 TO DATE)
9 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=>

12/15/2002

10032846

Welcome to STN International! Enter x:x

LOGINID:sssptal202sxq

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 32 Nov 18 DKILIT has been renamed APOLLIT
NEWS 33 Nov 25 More calculated properties added to REGISTRY
NEWS 34 Dec 02 TIBKAT will be removed from STN
NEWS 35 Dec 04 CSA files on STN
NEWS 36 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 37 Dec 17 TOXCENTER enhanced with additional content
NEWS 38 Dec 17 Adis Clinical Trials Insight now available on STN

NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability

12/15/2002

10032846

NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:53:32 ON 20 DEC 2002

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:54:00 ON 20 DEC 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 DEC 2002 HIGHEST RN 477274-19-4
DICTIONARY FILE UPDATES: 19 DEC 2002 HIGHEST RN 477274-19-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> s cholecalciferol
L1      216 CHOLECALCIFEROL

=> s cholecalciferol/rn
L2      0 CHOLECALCIFEROL/RN

=> s calciferol
L3      333 CALCIFEROL
```

12/15/2002

10032846

=> s calciferol/rn
L4 0 CALCIFEROL/RN

=> d l1 1-3

L1 ANSWER 1 OF 216 REGISTRY COPYRIGHT 2002 ACS
RN 447466-96-8 REGISTRY
CN Cytochrome P 450 27B1 (human gene CYP27B1 isoform) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 42: PN: WO02062820 SEQID: 3 claimed protein
CN **Oxygenase, 25-hydroxycholecalciferol 1-mono- (human gene CYP27B1 isoenzyme)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L1 ANSWER 2 OF 216 REGISTRY COPYRIGHT 2002 ACS
RN 447466-95-7 REGISTRY
CN Cytochrome P 450 27B1 (human clone 329827 gene CYP27B1 reference isoform) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3: PN: WO02062820 SEQID: 3 claimed protein
CN **Oxygenase, 25-hydroxycholecalciferol 1-mono- (human clone 329827 gene CYP27B1 reference isoenzyme)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L1 ANSWER 3 OF 216 REGISTRY COPYRIGHT 2002 ACS
RN 391540-84-4 REGISTRY
CN **DNA (human HL-60 cell 1,25-dihydroxycholecalciferol 24-monooxygenase cDNA plus flanks) (9CI) (CA INDEX NAME)**
OTHER NAMES:
CN 132: PN: WO0224956 FIGURE: 1 claimed DNA
CN 1996: PN: WO0224956 FIGURE: 6 claimed DNA
CN 8: PN: WO02072789 PAGE: 119 unclaimed DNA
CN GenBank L13286
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, USPATFULL

12/15/2002

.10032846

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d 11 1-3 ibib hitstr abs
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

12/15/2002

.10032846

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):file reg
'FILE' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

12/15/2002

10032846

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):end

=> d his

(FILE 'HOME' ENTERED AT 10:53:32 ON 20 DEC 2002)

FILE 'REGISTRY' ENTERED AT 10:54:00 ON 20 DEC 2002

L1 216 S CHOLECALCIFEROL
L2 0 S CHOLECALCIFEROL/RN
L3 333 S CALCIFEROL
L4 0 S CALCIFEROL/RN

=> d 11 1

L1 ANSWER 1 OF 216 REGISTRY COPYRIGHT 2002 ACS
RN 447466-96-8 REGISTRY
CN Cytochrome P 450 27B1 (human gene CYP27B1 isoform) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 42: PN: WO02062820 SEQID: 3 claimed protein
CN **Oxygenase, 25-hydroxycholecalciferol 1-mono- (human gene CYP27B1 isoenzyme)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d 13 1

L3 ANSWER 1 OF 333 REGISTRY COPYRIGHT 2002 ACS
RN 447466-96-8 REGISTRY
CN Cytochrome P 450 27B1 (human gene CYP27B1 isoform) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 42: PN: WO02062820 SEQID: 3 claimed protein
CN **Oxygenase, 25-hydroxycholecalciferol 1-mono- (human gene CYP27B1 isoenzyme)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

12/15/2002

.10032846

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s dihydroxycholecalciferol
L5 41 DIHYDROXYCHOLECALCIFEROL

=> d 15 1-3 hitstr
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when

12/15/2002

.10032846

it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end

=> d 15

L5 ANSWER 1 OF 41 REGISTRY COPYRIGHT 2002 ACS
RN 391540-84-4 REGISTRY
CN DNA (human HL-60 cell 1,25-dihydroxycholecalciferol 24-monooxygenase
cDNA plus flanks) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 132: PN: WO0224956 FIGURE: 1 claimed DNA
CN 1996: PN: WO0224956 FIGURE: 6 claimed DNA
CN 8: PN: WO02072789 PAGE: 119 unclaimed DNA
CN GenBank L13286
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s 391540-84-4/rn
L6 1 391540-84-4/RN

=> d 16

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 391540-84-4 REGISTRY
CN DNA (human HL-60 cell 1,25-dihydroxycholecalciferol 24-monooxygenase cDNA
plus flanks) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 132: PN: WO0224956 FIGURE: 1 claimed DNA
CN 1996: PN: WO0224956 FIGURE: 6 claimed DNA
CN 8: PN: WO02072789 PAGE: 119 unclaimed DNA
CN GenBank L13286
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

12/15/2002

.10032846

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s dihydroxy vitamin D3
305256 DIHYDROXY
1397 VITAMIN
25430 D3
L7 98 DIHYDROXY VITAMIN D3
(DIHYDROXY(W)VITAMIN(W)D3)

=> d 17 1-2

L7 ANSWER 1 OF 98 REGISTRY COPYRIGHT 2002 ACS
RN 385105-64-6 REGISTRY
CN DNA (human 1 alpha,25-dihydroxyvitamin D3 24-hydroxylase gene)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1542: PN: WO0224956 FIGURE: 2 claimed DNA
CN 328: PN: WO02086443 TABLE: 9A unclaimed DNA
CN 409: PN: WO0224956 FIGURE: 11 claimed DNA
CN GenBank U60669
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L7 ANSWER 2 OF 98 REGISTRY COPYRIGHT 2002 ACS
RN 302684-45-3 REGISTRY
CN Oxygenase, 1,25-dihydroxycholecalciferol 24-mono- (swine) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,25-Dihydroxyvitamin D3-24-hydroxylase (swine)
CN GenBank AF245504-derived protein GI 8896018
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s 1-alpha hydroxyvitamin D3

12/15/2002

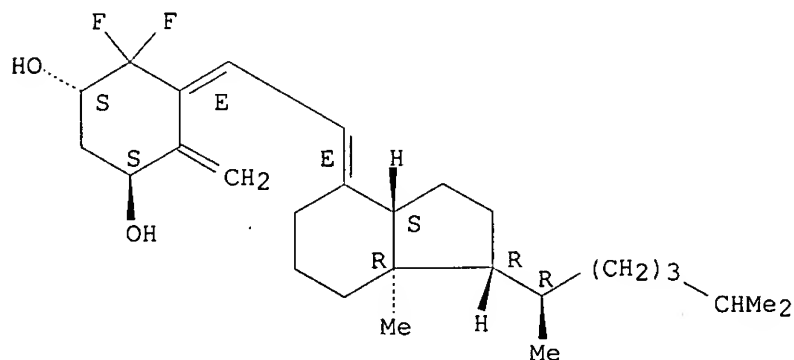
-10032846

12917001 1
2497420 ALPHA
244 HYDROXYVITAMIN
25430 D3
L8 14 1-ALPHA HYDROXYVITAMIN D3
(1(W) ALPHA(W) HYDROXYVITAMIN(W) D3)

=> d 18 1-3

L8 ANSWER 1 OF 14 REGISTRY COPYRIGHT 2002 ACS
RN 300693-09-8 REGISTRY
CN 9,10-Secocholesta-5,7,10(19)-triene-1,3-diol, 4,4-difluoro-,
(1.alpha.,3.beta.,5E,7E)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4,4-Difluoro-1.alpha.-hydroxyvitamin D3
FS STEREOSEARCH
MF C27 H42 F2 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry as shown.



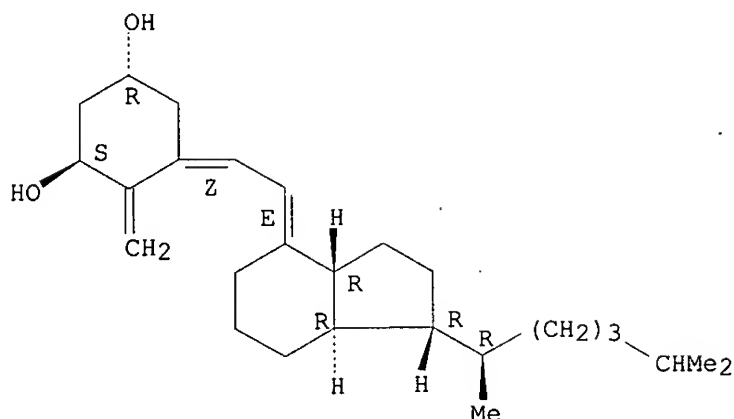
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 2 OF 14 REGISTRY COPYRIGHT 2002 ACS
RN 178765-14-5 REGISTRY
CN 18-Nor-9,10-secocholesta-5,7,10(19)-triene-1,3-diol,
(1.alpha.,3.beta.,5Z,7E)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 18-Nor-1.alpha.-hydroxyvitamin D3
FS STEREOSEARCH
MF C26 H42 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

12/15/2002



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 111687-67-3 REGISTRY

CN 1,3-Cyclohexanediol, 4-methylene-5-[(2E)-[(1S,3aS,7aS)-octahydro-7a-methyl-1-[(1S)-1-(3-methylbutoxy)ethyl]-4H-inden-4-ylidene]ethylidene]-, (1R,3S,5Z)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Cyclohexanediol, 4-methylene-5-[2-[octahydro-7a-methyl-1-[1-(3-methylbutoxy)ethyl]-4H-inden-4-ylidene]ethylidene]-, [1S-[1.alpha.(R*),3a.beta.,4E(1S*,3R*,5Z),7a.alpha.]]-

OTHER NAMES:

CN **22-Oxa-1.alpha.-hydroxyvitamin D3**

FS STEREOSEARCH

DR 103909-46-2

MF C26 H42 O3

SR CA

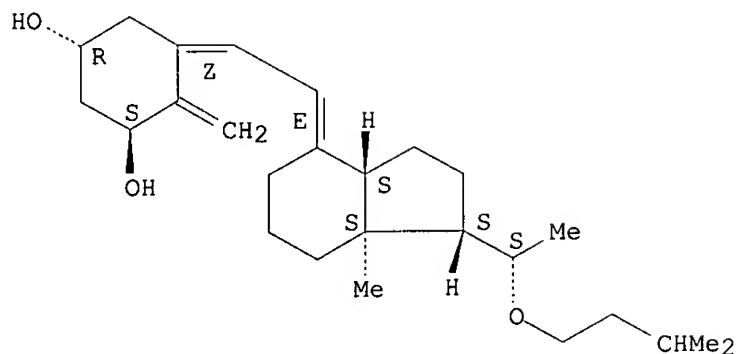
LC STN Files: BEILSTEIN*, CA, CANCERLIT, CAPLUS, CASREACT, MEDLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.

Double bond geometry as shown.

10032846



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1962 TO DATE)
9 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s 1, 25-dihydroxyvitamin D3
12917001 1
151379 25
121 DIHYDROXYVITAMIN
25430 D3
L9 26 1, 25-DIHYDROXYVITAMIN D3
(1(W) 25(W) DIHYDROXYVITAMIN(W) D3)

=> d 1-5 19

L9 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 302684-45-3 REGISTRY
CN Oxygenase, 1,25-dihydroxycholecalciferol 24-mono- (swine) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **1,25-Dihydroxyvitamin D3-24-hydroxylase (swine)**
CN GenBank AF245504-derived protein GI 8896018
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 274670-56-3 REGISTRY
CN DNA (swine 1,25-dihydroxycholecalciferol 24-monooxygenase cDNA plus flanks) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **DNA (swine 1,25-dihydroxyvitamin D3-24-hydroxylase cDNA plus flanks)**
CN GenBank AF245504

12/15/2002

10032846

FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: BIOSIS, CA, CAPLUS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 178926-99-3 REGISTRY
CN **Receptor, 1,25-dihydroxyvitamin D3 (rat isoform rVDR1 reduced)**
(9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 162581-21-7 REGISTRY
CN Retinoic acid, mixt. with (1.alpha.,3.beta.,5Z,7E)-26,26,26,27,27,27-hexafluoro-9,10-secocholesta-5,7,10(19)-triene-1,3,25-triol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 9,10-Secocholesta-5,7,10(19)-triene-1,3,25-triol, 26,26,26,27,27,27-hexafluoro-, (1.alpha.,3.beta.,5Z,7E)-, mixt. contg. (9CI)

OTHER NAMES:

CN 1.alpha.,25-Dihydroxy-26,27-hexafluorocholecalciferol-retinoic acid mixt.

CN 26,26,26,27,27,27-Hexafluoro-1,25-dihydroxyvitamin D3-retinoic acid mixt.

CN Flocalcitriol-retinoic acid mixt.

FS STEREOSEARCH

MF C27 H38 F6 O3 . C20 H28 O2

CI MXS

SR CA

LC STN Files: CA, CAPLUS, DRUGPAT, DRUGUPDATES, TOXCENTER

CM 1

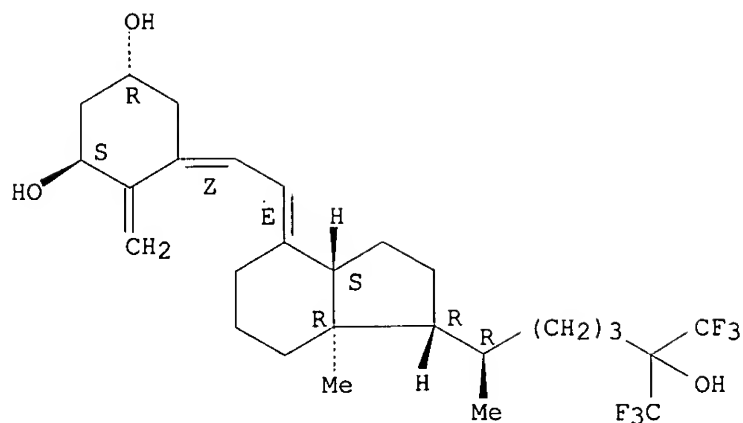
CRN 83805-11-2

CMF C27 H38 F6 O3

Absolute stereochemistry.
Double bond geometry as shown.

12/15/2002

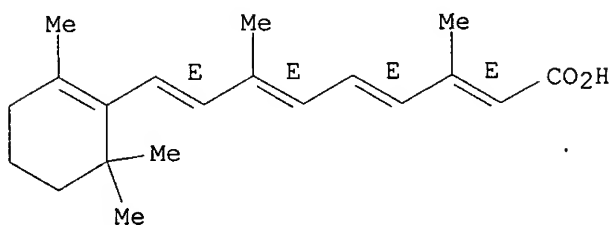
10032846



CM 2

CRN 302-79-4
CMF C20 H28 O2

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 162078-95-7 REGISTRY
CN **Receptor, 1,25-dihydroxyvitamin D3 (mouse) (9CI)** (CA INDEX NAME)
OTHER NAMES:
CN **Receptor, 1,25-dihydroxyvitamin D3 (Mus musculus)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d 19 6-10

12/15/2002

10032846

L9 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 160406-71-3 REGISTRY
CN **Receptor, 1,25-dihydroxyvitamin D3 (Coturnix coturnix japonica clone
jqVDR isoform B) (9CI)** (CA INDEX NAME)

OTHER NAMES:

CN **Receptor, 1,25-dihydroxyvitamin D3 (chicken isoform B)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 160406-70-2 REGISTRY
CN **Receptor, 1,25-dihydroxyvitamin D3 (Coturnix coturnix japonica clone
jqVDR isoform A) (9CI)** (CA INDEX NAME)

OTHER NAMES:

CN **Receptor, 1,25-dihydroxyvitamin D3 (chicken isoform A)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 149407-52-3 REGISTRY
CN **Oxygenase, 1,25-dihydroxycholecalciferol 24-mono- (human reduced) (9CI)**
(CA INDEX NAME)

OTHER NAMES:

CN **1,25-Dihydroxyvitamin D3 24-hydroxylase (human)**
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 148955-01-5 REGISTRY
CN **DNA (human 1,25-dihydroxycholecalciferol 24-monooxygenase cDNA plus
flanks) (9CI)** (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Deoxyribonucleic acid (human 1,25-dihydroxycholecalciferol
24-monooxygenase messenger RNA-complementary plus 5'- and 3'-flanking**

12/15/2002

10032846

region fragment)
OTHER NAMES:
CN 2670: PN: WO0173430 TABLE: 2 claimed DNA
CN DNA (human HL-60 cell 1,25-dihydroxyvitamin D3 24-hydroxylase cDNA
plus flanks)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

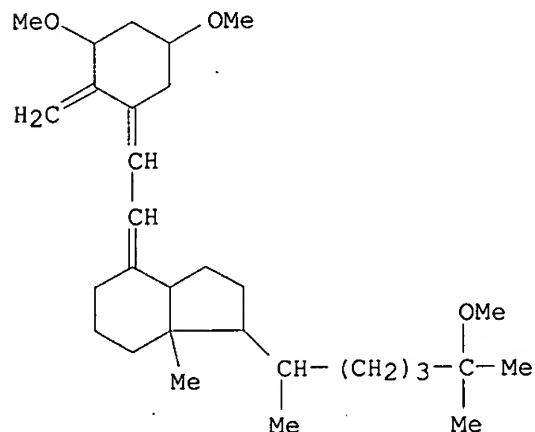
RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 140111-57-5 REGISTRY
CN 9,10-Secocholesta-5,7,10(19)-triene, 1,3,25-trimethoxy-,
(1.alpha.,3.beta.,5Z,7E)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Permethyl-1,25-dihydroxyvitamin D3**
MF C30 H50 O3
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d 19 11-15

L9 ANSWER 11 OF 26 REGISTRY COPYRIGHT 2002 ACS

12/15/2002

10032846

RN 140045-51-8 REGISTRY
CN DNA (rat 1,25-dihydroxyvitamin D3 receptor cDNA plus flanks) (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Deoxyribonucleic acid (rat 1,25-dihydroxyvitamin D3 receptor
messenger RNA-complementary plus 5'- and 3'-flanking region fragment)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 12 OF 26 REGISTRY COPYRIGHT 2002 ACS

RN 123963-52-0 REGISTRY

CN 1,3-Cyclohexanediol, 4-methylene-5-[(2E)-[(1R,3aS,7aR)-octahydro-1-
[(1R,2E)-8-hydroxy-1,8-dimethyl-2-nonenyl]-7a-methyl-4H-inden-4-
ylidene]ethylidene]-, (1R,3S,5Z)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Cyclohexanediol, 4-methylene-5-[[octahydro-1-(8-hydroxy-1,8-dimethyl-2-
nonenyl)-7a-methyl-4H-inden-4-ylidene]ethylidene]-, [1R-
[1.alpha.(1R*,2E),3a.beta.,4E(1R*,3S*,5Z),7a.alpha.]]-

OTHER NAMES:

CN .DELTA.22-24,24,24-Trihomo-1,25-dihydroxyvitamin D3

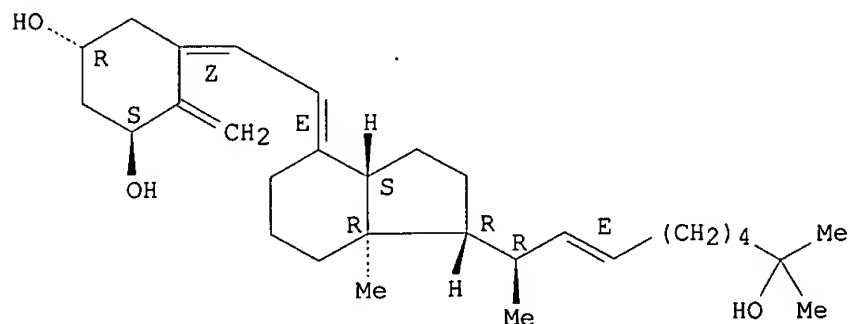
FS STEREOSEARCH

MF C30 H48 O3

SR CA

LC STN Files: CA, CAPLUS, MEDLINE, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1962 TO DATE)
13 REFERENCES IN FILE CAPLUS (1962 TO DATE)

12/15/2002

10032846

L9 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2002 ACS

RN 123963-51-9 REGISTRY

CN 1,3-Cyclohexanediol, 4-methylene-5-[(2E)-[(1R,3aS,7aR)-octahydro-1-[(1R,2E)-7-hydroxy-1,7-dimethyl-2-octenyl]-7a-methyl-4H-inden-4-ylidene]ethylidene]-, (1R,3S,5Z)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Cyclohexanediol, 4-methylene-5-[[octahydro-1-(7-hydroxy-1,7-dimethyl-2-octenyl)-7a-methyl-4H-inden-4-ylidene]ethylidene]-, [1R-[1.alpha.(1R*,2E),3a.beta.,4E(1R*,3S*,5Z),7a.alpha.]]-

OTHER NAMES:

CN .DELTA.22-24,24-Dihomo-1,25-dihydroxyvitamin D3

FS STEREOSEARCH

DR 154356-84-0

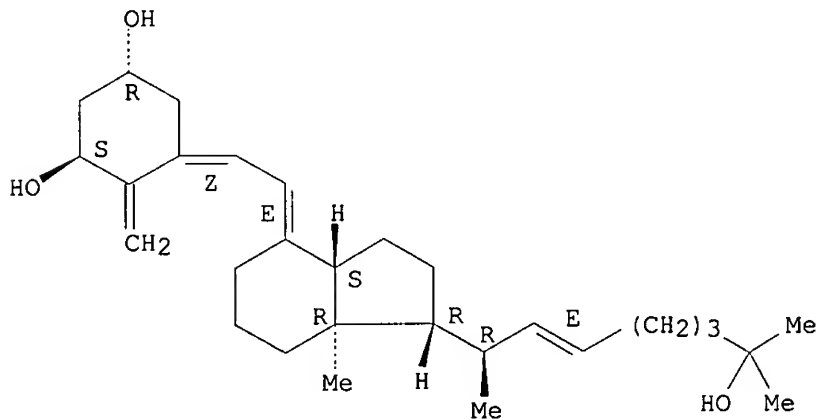
MF C29 H46 O3

SR CA

LC STN Files: CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER, USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

14 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2002 ACS

RN 122634-67-7 REGISTRY

CN Receptor, 1,25-dihydroxyvitamin D3 (rat reduced) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

12/15/2002

10032846

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L9 ANSWER 15 OF 26 REGISTRY COPYRIGHT 2002 ACS
RN 122634-33-7 REGISTRY
CN DNA (rat 1,25-dihydroxyvitamin D3 receptor cDNA) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (rat 1,25-dihydroxyvitamin D3 receptor messenger RNA-complementary)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 10:53:32 ON 20 DEC 2002)

FILE 'REGISTRY' ENTERED AT 10:54:00 ON 20 DEC 2002

L1 216 S CHOLECALCIFEROL
L2 0 S CHOLECALCIFEROL/RN
L3 333 S CALCIFEROL
L4 0 S CALCIFEROL/RN
L5 41 S DIHYDROXYCHOLECALCIFEROL
L6 1 S 391540-84-4/RN
L7 98 S DIHYDROXY VITAMIN D3
L8 14 S 1-ALPHA HYDROXYVITAMIN D3
L9 26 S 1, 25-DIHYDROXYVITAMIN D3

=> d 18 4-8

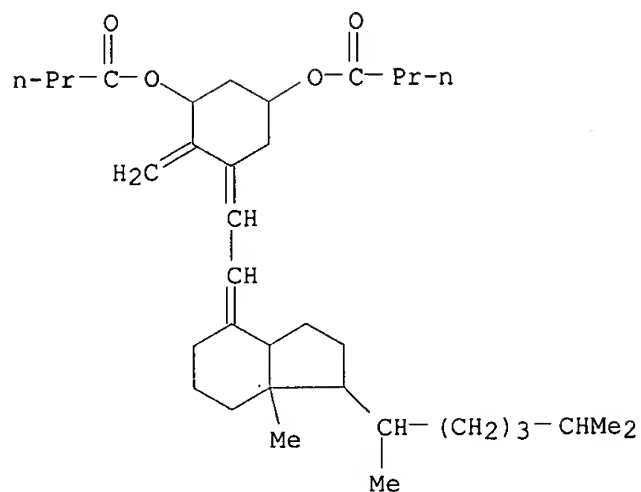
L8 ANSWER 4 OF 14 REGISTRY COPYRIGHT 2002 ACS
RN 110823-53-5 REGISTRY
CN 9,10-Secocholesta-5,7,10(19)-triene-1,3-diol, dibutanoate, (1.alpha.,3.beta.,5Z,7E)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1.alpha.-Hydroxyvitamin D3 1,3-dibutyrate
MF C35 H56 O4
SR CA
LC STN Files: CA, CAPLUS

12/15/2002

10032846



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 5 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 105282-55-1 REGISTRY

CN 24-Nor-9,10-secochola-5,7,10(19)-trien-23-al, 1,3-dihydroxy-,
(1.alpha.,3.beta.,5Z,7E)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 24,25,26,27-Tetranor-23-oxo-1.alpha.-hydroxyvitamin D3

FS STEREOSEARCH

DR 131496-25-8

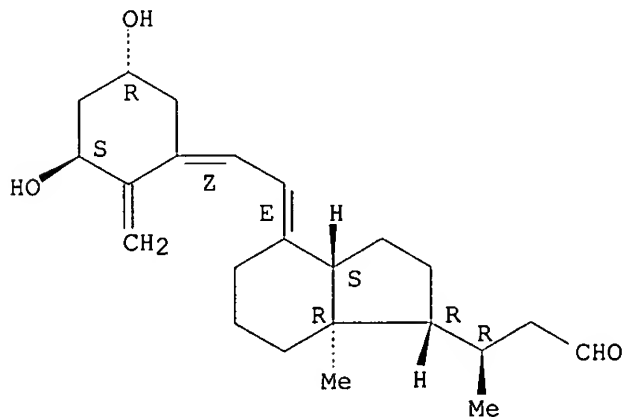
MF C23 H34 O3

SR CA

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

Double bond geometry as shown.



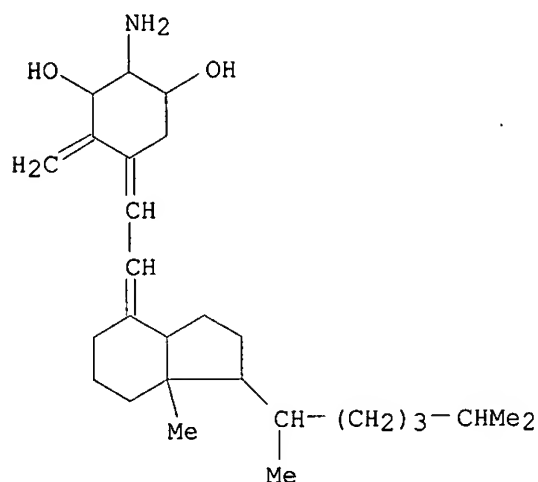
12/15/2002

• 10032846

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 6 OF 14 REGISTRY COPYRIGHT 2002 ACS
RN 104109-73-1 REGISTRY
CN 9,10-Secocholesta-5,7,10(19)-triene-1,3-diol, 2-amino-,
(1.alpha.,2.beta.,3.beta.,5Z,7E)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **2.beta.-Amino-1.alpha.-hydroxyvitamin D3**
MF C27 H45 N O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



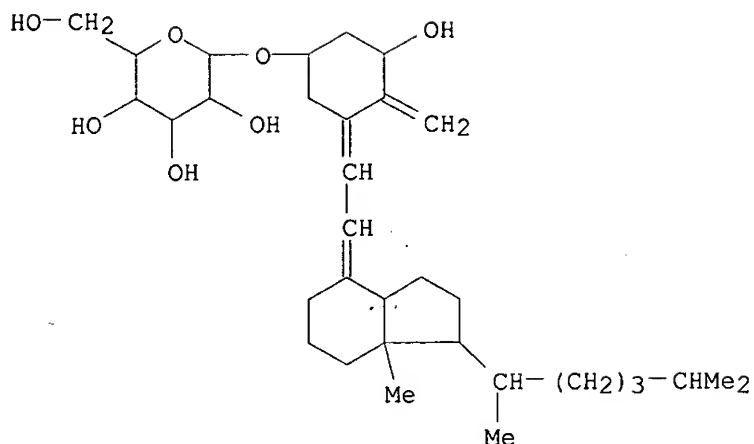
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 7 OF 14 REGISTRY COPYRIGHT 2002 ACS
RN 89457-68-1 REGISTRY
CN .beta.-D-Glucopyranoside, (1.alpha.,3.beta.,5Z,7E)-1-hydroxy-9,10-
secocholesta-5,7,10(19)-trien-3-yl (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9,10-Secocholestane, .beta.-D-glucopyranoside deriv.
OTHER NAMES:
CN **1.alpha.-Hydroxyvitamin D3 3-.beta.-D-glucopyranoside**
MF C33 H54 O7
LC STN Files: CA, CAPLUS

12/15/2002

10032846



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 8 OF 14 REGISTRY COPYRIGHT 2002 ACS
RN 86551-07-7 REGISTRY
CN Oxygenase, 1.alpha.-hydroxycholecalciferol 25-mono- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1.alpha.-Hydroxycholecalciferol 25-monooxygenase
CN 1.alpha.-Hydroxyvitamin D3 25-hydroxylase
CN 1.alpha.-Hydroxyvitamin D3 25-monooxygenase
MF Unspecified
CI MAN
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
6 REFERENCES IN FILE CA (1962 TO DATE)
6 REFERENCES IN FILE CAPLUS (1962 TO DATE)